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File: USPT

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US-PAT-NO: 5945275

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TITLE: Nematode-extracted anti-parasitant protein

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INVENTOR-INFORMATION:

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US-CL-CURRENT: 435/5; 435/6; 536/23.5

CLAIMS:

We claim:

1. A recombinant cDNA molecule having a nucleic acid sequence selected from the nucleic acid sequences depicted in FIG. 7A [SEQ. ID. NO. 38], FIG. 7B [SEQ. ID. NO. 39], FIG. 7C [SEQ. ID. NO. 40], FIG. 7D [SEQ. ID. NO. 41], FIG. 7E [SEQ. ID. NO. 42], and FIG. 7F [SEQ. ID. NO. 43].
2. A recombinant cDNA molecule having the nucleic acid sequence depicted in FIG. 9 [SEQ. ID. NO. 47].
3. A recombinant cDNA molecule having a nucleic acid sequence selected from the nucleic acid sequences depicted in FIG. 1 [SEQ. ID. NO. 32] and FIG. 3 [SEQ. ID. NO. 34].
4. A recombinant cDNA molecule characterized as having the nucleic acid sequence depicted in FIG. 9 [SEQ. ID. NO. 47] and made by a method of making a recombinant cDNA encoding a protein, comprising the steps of:
 - (a) isolating a cDNA library from a species of nematode selected from the group consisting of Ancylostoma caninum, Ancylostoma ceylanicum, Ancylostoma duodenale, Necator americanus and Heligmosomoides polygyrus;
 - (b) ligating said cDNA library into a phagemid vector selected from the group consisting of pDONG61 [SEQ. ID. NO. 44], pDONG62 [SEQ. ID. NO. 45] and pDONG63 [SEQ. ID. NO. 46];
 - (c) transforming host cells which are E. coli, strain TG1 with said vector containing said cDNA library;
 - (d) culturing said host cells;
 - (e) infecting said host cells with a helper phage;
 - (f) separating phage containing said cDNA library from said host cells;
 - (g) combining a solution of said phage containing said cDNA library with a solution of biotinylated human factor Xa;
 - (h) contacting streptavidin-coated solid phase with said solution containing said phage containing said cDNA library, and said biotinylated human factor Xa;
 - (i) isolating phage which bind to said streptavidin-coated solid phase; and
 - (j) isolating the recombinant cDNA molecule from phage which bind to said streptavidin-coated solid phase.